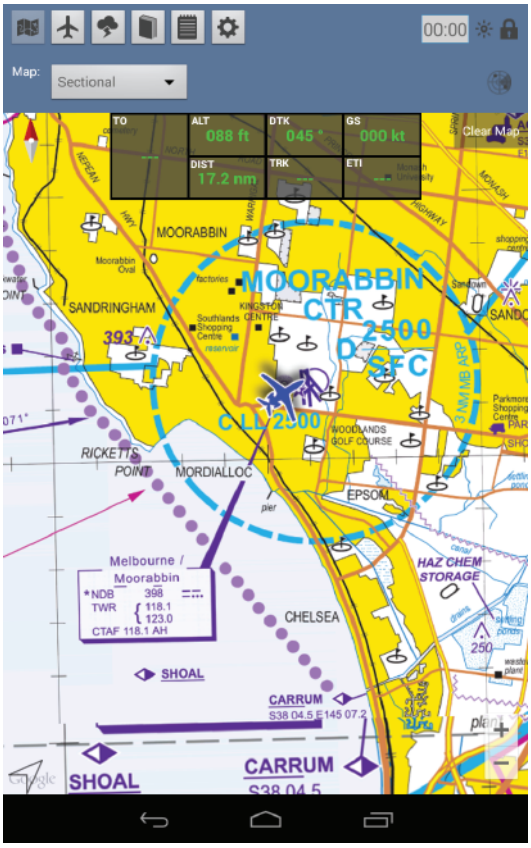
avplan lite

for Android



User Guide

Version 1.1

1. INTRODUCTION

Thank you for choosing AvPlan Lite, the premier portable paper replacement Electronic Flight Bag (EFB) for Android. It has been designed to be straightforward and easy to learn for those pilots who don't require a full suite of flight planning tools or require a backup to a full EFB.

AvPlan Lite is fully **CASA certfied under CAR 233 1(h)** and allows you to:

- Download and save copies of all aviation maps, ERSA, DAP and AIP. Important when there is intermittent or no network access.
- Download and view NAIPS weather briefings, RAIM reports and NOTAMs.
- Display a direct-to routing and the aircraft's current location on a seamless VFR or IFR map.
- At a glance, view flight dynamic flight information via the heads up display.
- Provide easy access to ERSA and DAP information at any stage of flight.

1.1 Help

Support for AvPlan Lite can be requested at: support@avsoft.com.au

1.2 Getting AvPlan Lite

The app is available with a one month fully featured free trial. Simply download the free app from the Google Play Store as you would any other Android app. On completion of the trial period the aeronautical data will no longer be accessible.
After this trial period you will require the AvPlan Lite VFR subscription as a minimum to continue to use the app. There is also an IFR upgrade pack available, too. Subscriptions are sold on a yearly subscription basis, and do not automatically renew.

Note: Subscriptions are valid for a single pilot on a maximum of three devices.

The AvPlan Lite VFR subscription enables full use of the app, with the AIP, ERSA (AU) and the local available VFR maps (e.g. Sectional [also known as mega VFR], mega WAC, ERC Low, ERC High and Satellite).
At the completion of the subscription period the App will no longer function.
The IFR Upgrade includes the DAP.

1.3 Licensing and subscriptions

Subscriptions can be purchased from www.avsoft.com.au. To purchase a subscription use the following steps:

AvPlan Website:
1. Navigate to the AvPlan website using your favourite browser and select the <Store> option from the list of options along the top of the home page.
2. Scroll through the list of options to find the subscription(s) you require. To select the subscription, press the grey **Add to Cart** button to the below the subscription type. Do this for each of the subscriptions you require.

3. Once you have made your selections press the **Checkout** button to the right of the store web-page. Review your selections and amend as required. PayPal is the only payment option currently available via the website. If you wish to pay via a credit card you can do so by phoning AvPlan directly (see website contact details).

Note: If you are not already logged into the website, you will be asked to login before you can complete your purchases.

The new renewal end date will be 12-months from the current subscription end date or the corresponding period from the purchase date, whichever is the latter.
Also, tapping **Settings > Subscriptions** from within the app is a shortcut to our website.

1.4 Getting an AvPlan username

You can get an AvPlan username via the AvPlan Lite app or via the AvPlan website. Once you have your username configured you can use it to synchronise the subscription on all of your AvPlan Lite enabled devices.
If you don't have a username already, you will be prompted to register when you first attempt to make a subscription purchase from the AvPlan website. In the **Register** section of the webpage simply enter your preferred email address and a memorable password, press register and you're done.
From the AvPlan Lite app, select **Settings** > **User Settings** (in that order) where you will be presented with the option to Sign In, Sign Up or Reset your password. As with the website enter your preferred e-mail address and a memorable password, press the **Sign Up** button and you're done.

1.5 A note to AvPlan EFB (iOS) users

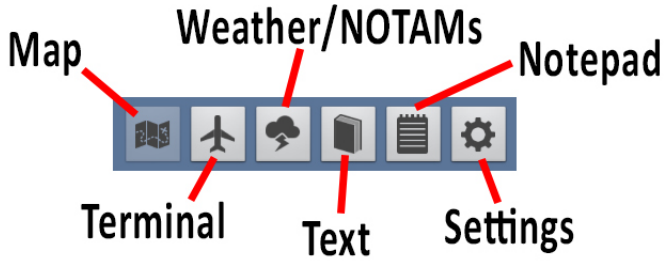
If you have a current AvPlan EFB subscription for iOS and wish to use an Android device as a backup, your subscription will cover you for no additional cost. Simply enter the same email address and password either in the Login Details screen when you first start AvPlan Lite or tap **Settings > User Settings** and enter your details there. Remember your AvPlan subscription can be shared on up to three devices.
Please note: Geo-Referenced charts are not available in AvPlan Lite for Android.

1.6 Starting AvPlan Lite for the first time

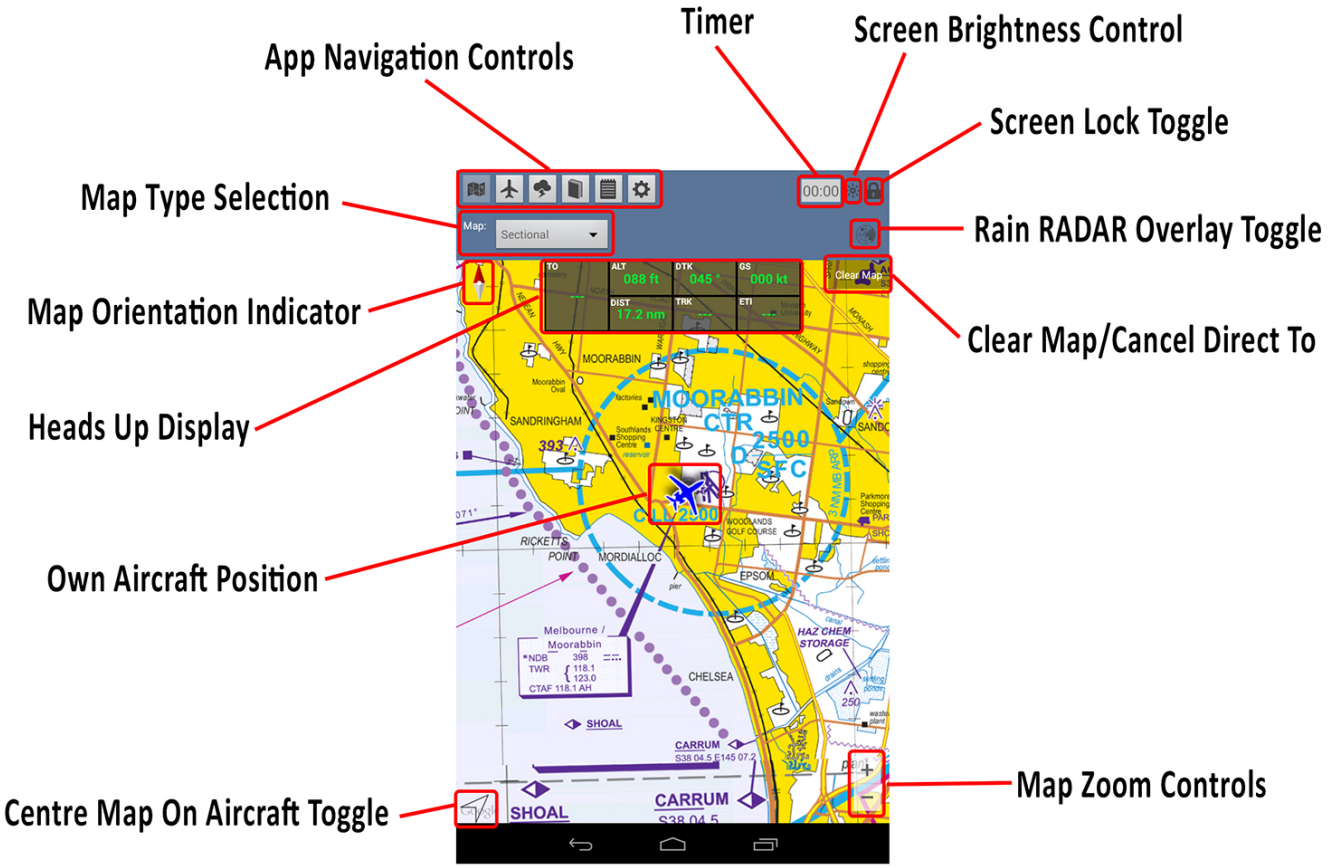
The first time AvPlan Lite is run, the app will complete the unpacking and setup process. During this time it will download some more data, so it is recommended that your device is connected to a good WiFi connection as mobile internet connections may incur extra costs.
Depending on your connection and device, this initial process could take up to a few minutes. It is best to leave the device to complete this task, as stopping in the middle of it could mean unexpected app behaviour in the future.

2. NAVIGATING AROUND AVPLAN LITE

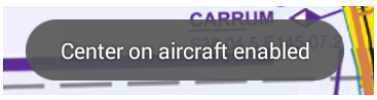
AvPlan Lite is designed to be simple to navigate around. When utilising the app, the navigation buttons at the top of the screen are always visible. The currently selected page will be shaded darker than the others.

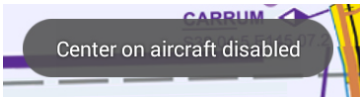


2.1 Map page



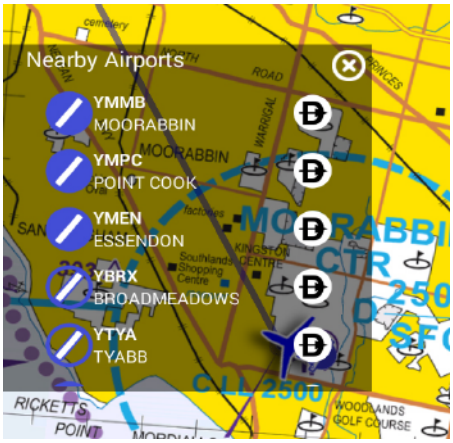
- **Map Selection:** Select from various map types. Sectional (otherwise known as Mega VFR), En Route Low, En Route High, Mega WAC and Satellite map.
- **Map Orientation Indicator:** If you've changed the orientation of the map (done by twisting the map with two fingers), this indicator will appear showing where north is. To instantly bring it back to **North Up**, tap this icon once.
- **Heads Up Display:** Shows you pertinent information at a glance during flight.
  - To: Displays desired destination when **Direct To** navigation is active
  - ALT: GPS derived altitude AMSL
  - DIST: Distance in NM from your current location to destination
  - DTK: Desired Track (Static bearing to destination)
  - TRK: Current heading
  - GS: Ground speed in Knots
  - ETI: Estimated time interval (arrival at destination in minutes)
- **Own Aircraft Position:** Displays current position and heading information. Note that this icon does **not** change colour according to GPS accuracy.
- **Centre Map on Aircraft:** When on, it keeps the aircraft in the middle of the map as you fly along. When off, the aircraft may fly off the edge of the map if left unchecked. A message will appear for a few seconds, alerting you to which mode the map is in.





- **Map Zoom Controls:** A manual way to zoom the map in and out. The touchscreen 'pinch to zoom' can also be used.
- **Clear Map/Cancel Direct-To:** Removes currently selected destination and clears the line drawn on the map.
- **Rain RADAR overlay:** Overlays an animation of the latest rain detection on the map. Toggle to switch on and off. Note that this feature requires an active data connection.
- **Screen Lock:** Toggle this to prevent the screen being accidentally pressed in flight.
- **Screen Brightness Control:** Tap then slide left and right to alter the device backlight intensity.
- **Timer:** A multi-purpose count-up timer. Tap once to start, once again to stop and a third time to restart from zero.

2.1.1 Selecting an airport via Nearby Airports menu



Tapping on the map (anywhere other than on the 'own ship' aircraft) brings up the **Nearby Airports** window. The airports (or helipads, if switched on) are listed in order from closest to the point you tapped, to the farthest away. It is **not** the closest items to your current position.

Tapping the name portion (i.e. the left side) of the list item will take you to the Terminal information pertaining to that airport. That's where ERSA and Weather details, etc are found.

Tap the Direct To Ⓓ icon on the right initiates navigation to that place.

2.1.2 Direct to navigation

Once you've tapped the **direct to** button navigation begins immediately. AvPlan will draw a line on the map from your current position to the intended destination. This line is fixed and does not move as the flight progresses; much like a bearing to a VOR. If you diverge track left or right (due to cloud, for example), you can easily return to the original track.

The HUD (Heads Up Display) is also now fully populated with information about the flight.

To fly **Track Up**, simply twist the map around with two fingers until the line runs up and down the page. To quickly return at any time to **North Up**, tap the **Map Orientation Indicator** that appears in the top left hand corner of the map.

To stop navigation, simply tap **Clear Map** in the top right hand corner of the map.

2.2 Terminal page

The **Terminal page** is where airport details are accessed. When you first press the **Terminal button**, you will see an airport name with some of its details listed at the top.
The screen will default to the 'Comms' tab, which lists frequencies used when operating at or near the airport.

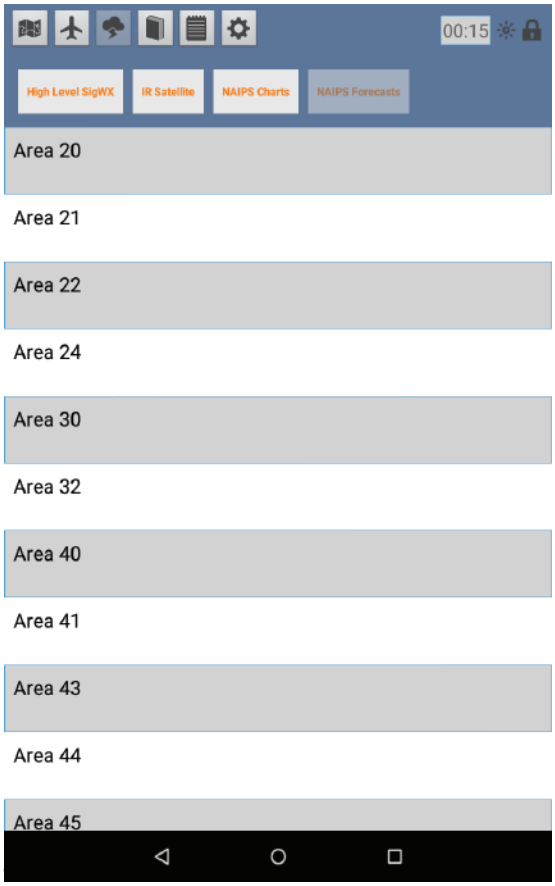
TAF, NOTAM and RAIM reports are instantly requested and returned when their button it tapped. No need for NAIPS logins, etc as this is already sorted for you. Data connectivity is required to access these reports.

Viewing ERSA or DAP charts is simply a matter of tapping **Charts** and selecting the desired page from the list.

An alternate method of selecting an airport to view is to tap the **Select Airport** button. Airports can be searched either by their name (i.e. Bankstown), or their identifier (i.e. YSBK).

2.3 Weather page

This is where many kinds of weather products provided by NAIPS can be accessed. They are grouped into four types:



- High Level Significant Weather Charts
- Infrared Satellite Images
- NAIPS Charts
- NAIPS Area Forecasts

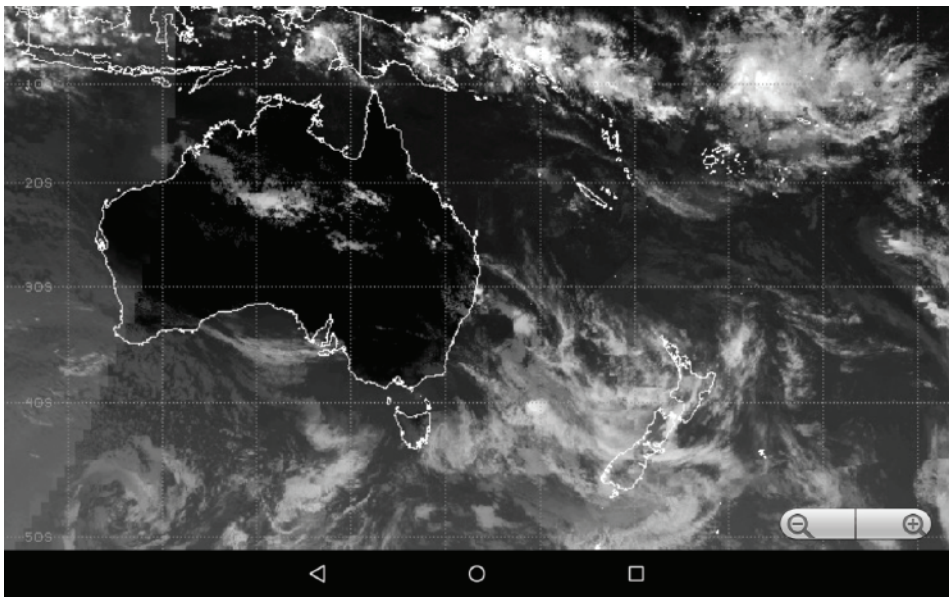
To request an Area Forecast:

Simplay tap on NAIPS Forecasts, scroll down until you find the correct area and then tap it.

Once it has downloaded, you can scroll left/right up/down, and even pinch to zoom. Also, zoom buttons appear in the bottom left-hand corner of the screen if you prefer zooming via that method.

To return to the list after reading the forecast, tap the Android **Back Button**. These come in different designs depending on the make of your device, but are usually an arrow or triangle facing to the left.

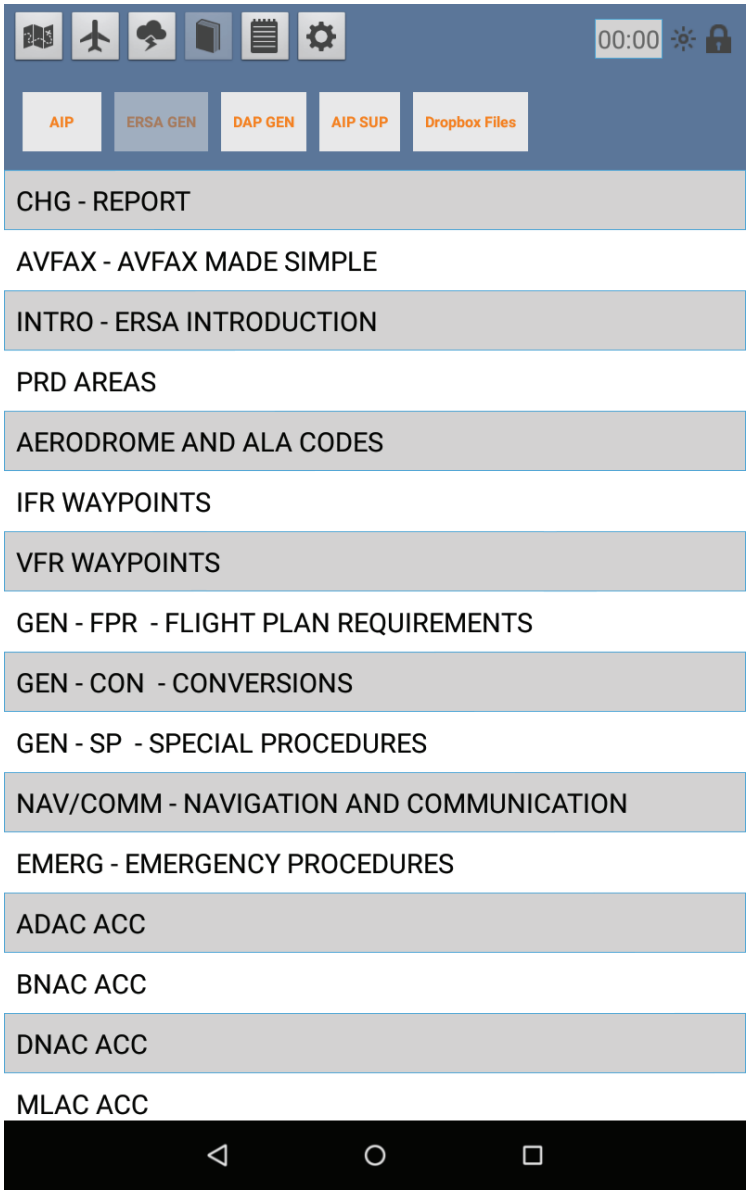
Below is an example of an Infrared Satellite image:



2.4 Text page

The text page is where all non-Terminal related documents are found.

Available texts include the AIP, ERSA GEN (the non airport specific pages of the ERSA), DAP GEN, AIP SUP and personal .PDF files stored in a specific folder in your Dropbox account.

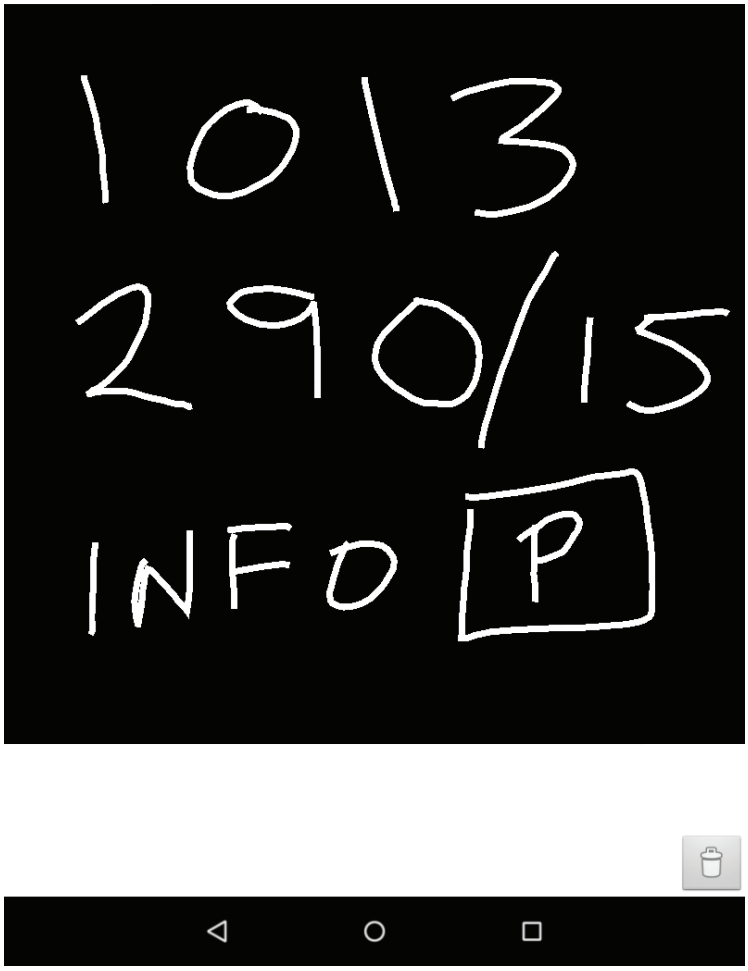


To link your Dropbox account, tap the **Link Account** button in the bottom left-hand corner. Follow the prompts and sign in to your account. A folder will automatically be created in your Dropbox file system. Place any .PDF documents you'd like to be able to access within AvPlan Lite there.

2.5 Scratchpad page

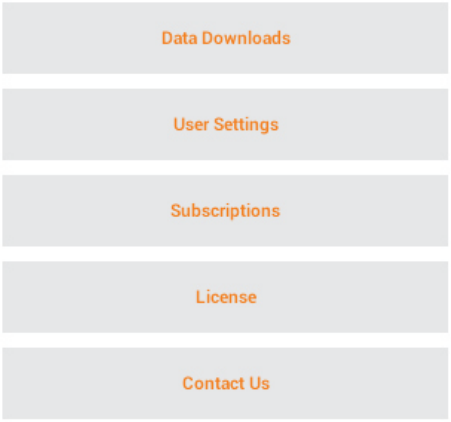
This is a very handy in-flight note taking tool. Simply scribble with your finger the information you wish to keep for future reference. It can be especially handy for taking down ATIS information, or noting aircraft registrations just in case direct communication is required.

To clear the area ready for reuse, tap the trash bin icon in the bottom right hand corner.



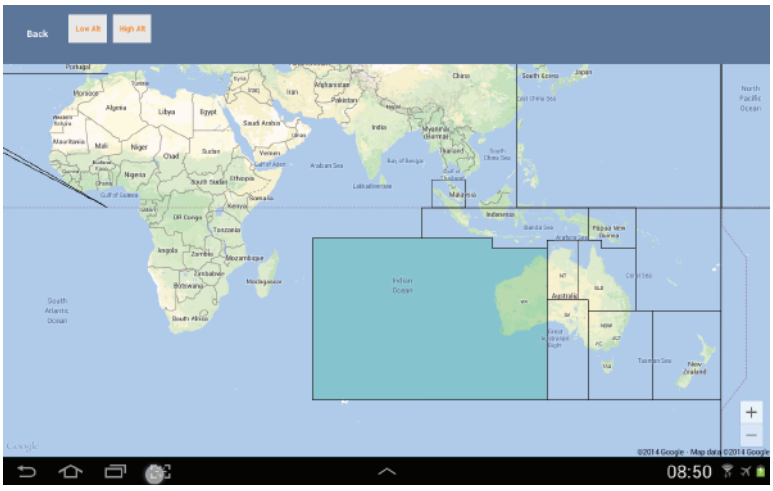
2.6 Settings page

Settings to personalise your AvPlan Lite are found here. You will also be able to prepare your device for use in flight by downloading maps, charts and plates to be stored locally in memory and manage your login/subscription details.



2.6.1 Data downloads

Before taking AvPlan Lite with you in flight, maps and charts will need to be downloaded and saved to your device. Tap **Data Downloads** to access this.



Ensure you select either **Low Altitude** or **High Altitude** maps. This is selected in the top left-hand corner.

Also ensure you are connected to a good WiFi or hotspot.

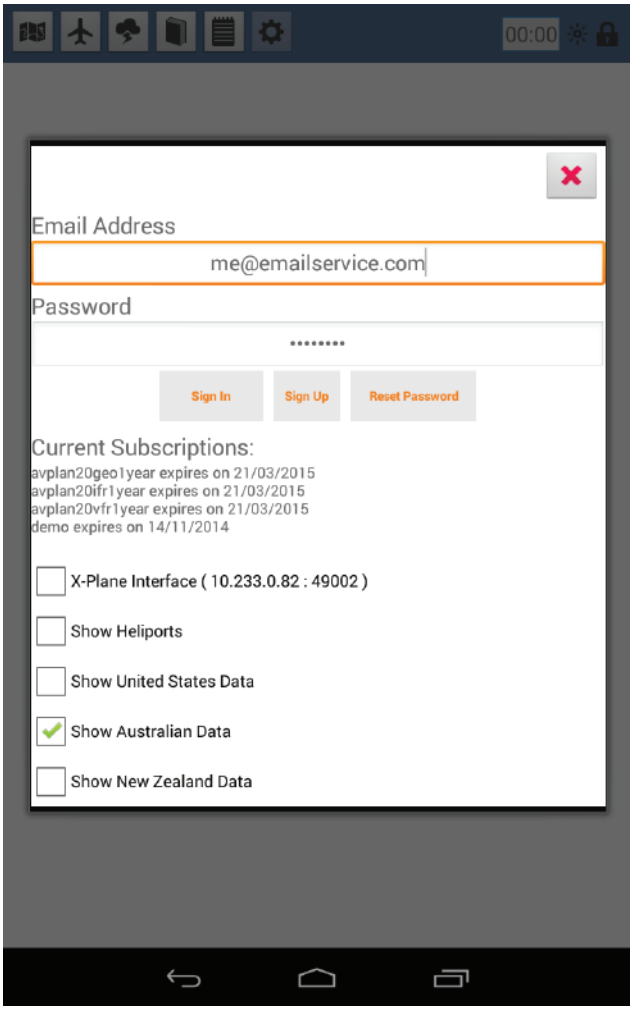
Note that the map is broken up into various segments. Search for the area(s) you'd like to have available on your device at all times (even when data connectivity is not available) and tap it. This will request the area to be downloaded.

Several progress bars will appear. Allow the device to download and install each part of the area before going off and doing other things with the app. This will ensure the most timely download and install.

When it is complete, the progress bars will disappear and the area you seleted will turn green (as per Western Australia in the above screenshot).

2.6.2 User settings

This is an important part of fully setting up and customising your AvPlan Lite experience.



If this is the first time you have used AvPlan Lite, and you are making use of the free one month trial, you do not have to enter anything in the top two fields at this stage. Simply enjoy trialling the app.

If you'd like to sign up to our email database, type your email address and create a password for yourself then tap **Sign Up**.

If you have already purchased a subscription (either an AvPlan Lite subscription, or you wish to use your existing AvPlan EFB subscription), type the same email address and password that you use to login to access our website or your iOS app. Once that's all in place, tap **Sign In.** If you are not sure what your password is/was, you may elect to tap **Reset Password**. This prompts our server to generate a new password and send it to your email address.

When the sign in procedure is fully completed, AvPlan Lite wil display a list of your current subscriptions with their end dates.

AvPlan Lite can be used in conjunction with the X-Plane flight simulator.
To enable and use the X-Plane interface:

- Enable the X-Plane interface in AvPlan. Note the IP address of your device.
- In X-Plane enable sending of data to AvPlan:
  a. Click on **Settings, Data Input and Output**.
  b. Tick only the row labelled 'lat, lon, alt'.
  c. Click on Settings, **Net Connections** and **Advanced**.
  d. Enter your device IP address, and the port number is 49002.

AvPlan will receive location information from X-Plane.

Check **Show Heliports** if you'd like **Helicopter Landing Sites** to be included in the **Nearby Airports** list.

The three other checkboxes all turn on and off data from various countries. To remove clutter, un-check the countries you do not need data/charts/text for and ensure Australia is checked.

2.6.3 Subscriptions

This is a convenient direct link to our website online subscription store if a new subscription is required.

2.6.4 License

Tap this option to display the end user license agreement.

2.6.5 Contact us

This is a convenient direct link to our support email desk if you have any further queries about AvPlan Lite.

3. EXITING AVPLAN LITE

Unlike other Android apps, AvPlan Lite is designed to be persistent. The app will not exit just by pressing the back button several times - the last thing you want in the air is for the app to exit on you with an accidental button push. You can press the **Home** button, which will background it temporarily.

In order to fully exit the app, you must use Android's multitasking or task manager. Each version is slightly different, but most involve tapping the task button and flicking the AvPlan Lite entry from the list. Consult your devices' user manual for instructions on how to launch and use your task manager.